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$$\frac{-(CF_2-CF_2)_{X}(CF_2-CF)_{Y}}{(OCF_2-CF)_{Z}O(CF_2)_2SO_3H}$$
Nafion® membrane
$$CF_3$$

Fig. 1

$$-(CF_2-CF_2)_{\overline{m}}(CF_2-CF_2)_{\overline{n}}$$

$$SO_3H$$

Fig. 2

FO₂S—CF₂CF₂O+
$$\frac{C}{C}FCF_2O+\frac{C}{2}CF=CF_2$$
 + CF₂=CF₂

$$\frac{CF_2-CF_2}{CF_3}+\frac{CF_2-CF_2}{CF_3}$$

$$\frac{-(CF_2-CF_2)}{CF_2}+\frac{CF_2-CF_2}{CF_3}+\frac{CF_2-CF_2}{CF_3}$$

$$\frac{-(CF_2-CF_2)}{CF_2}+\frac{CF_2-CF_2}{CF_3}+\frac{CF_2-CF_2}{CF_3}$$

King. 3

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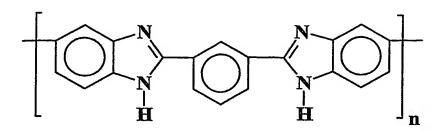


Fig. 4

$$-\left\{ \bigcirc \right\} - \left\{ \bigcirc \right\} - \left\{$$

$$-\left\{ \bigcirc \begin{matrix} \stackrel{CH_3}{\longleftarrow} \bigcirc \begin{matrix} -O & \stackrel{O}{\longrightarrow} \\ \stackrel{C}{\longleftarrow} \bigcirc \begin{matrix} O & \stackrel{O}{\longrightarrow} \\ O & O \end{matrix} \right\}_n$$

Fig. 5

$$-(CH_2-CF_2)_{\overline{n}}$$

Fig. 6

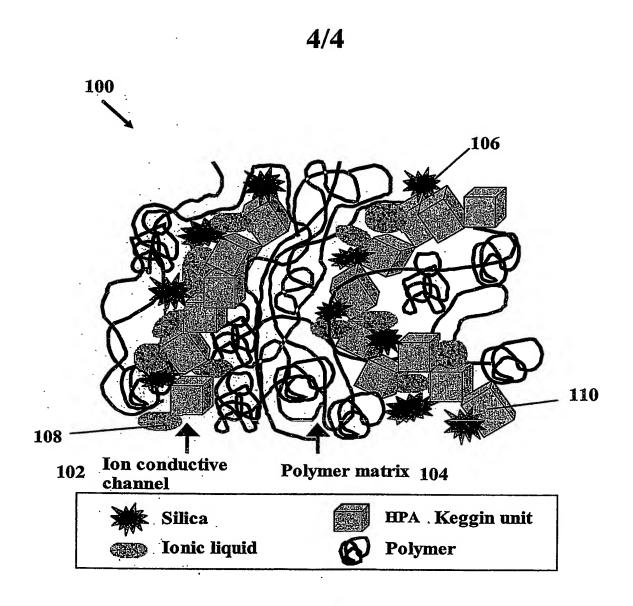


Fig. 7